Atty. Dkt. No. 03CR418/KE (047141-0350)

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (Currently Amended) A method of adapting a communication link in a network of radio communication nodes, comprising:

sending by a first node a first radio communication to a monitoring node;

receiving by the monitoring node the first radio communication;

estimating by the monitoring node the dynamics of a communications channel based on a link metric of at least the first radio communication;

categorizing the dynamics of the communications channel into one of at least two groups, based on the estimate;

selecting, based on a chosen group, the use of either closed loop link adaptation or open loop adaptation of communication link parameters: and

wherein the monitoring node is a last open loop output peer node.

2.   (Original) The method of claim 1, wherein one of the two groups is a static group.

3.   (Original) The method of claim 1, wherein one of the two groups is a dynamic group.

4.   (Previously Presented) The method of claim 1, wherein the link metric is a received signal strength indicator (RSSI).

5.   (Previously Presented) The method of claim 1, wherein the link metric is a signal to noise ratio (SNR).

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6.   (Previously Presented) The method of claim 1, wherein the link metric is a symbol error rate (SER).

7.   (Original) The method of claim 1, wherein the first radio communication includes a message header with a transmission power indicator.

8.   (Original) The method of claim 1, wherein the communication link parameters comprise at least one of transmit power, modulation type, and forward error correction (FEC).

9.   (Currently Amended) A method of changing communication link adaptation techniques in a network of radio communication nodes, comprising:

detecting interference by utilizing a monitoring node that receives communication signals in an open loop mode;

estimating using an open loop estimator, a channel dynamics; and

determining, whether transmission parameters should be adjusted based on open loop metrics or closed loop metrics, based on the channel dynamics; and

wherein the monitoring node is a last open loop output peer node.

10.   (Original) The method of claim 9, further comprising:

adjusting the transmission parameters based on open loop metrics.

11.   (Original) The method of claim 10, further comprising:

adjusting the transmission parameters based on closed loop metrics.

12.   (Previously Presented) The method of claim 9, wherein the open loop estimator uses a received signal strength indicator (RSSI).

13.   (Previously Presented) The method of claim 9, wherein the open loop estimator uses a signal to noise ratio (SNR).

14.   (Previously Presented) The method of claim 9, wherein the open loop estimator uses a symbol error rate (SER).

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15.   (Previously Presented) The method of claim 9, further comprising:

receiving a radio communication having a message header with a transmission power indicator.

16.   (Previously Presented) The method of claim 9, wherein the transmission parameters comprise at least one of transmit power, modulation type, and forward error correction (FEC).

17.   (Currently Amended) A monitoring node in a[[A]] radio node communication system[[,]] including comprising:

a first radio node, the first radio node configured to send a first radio communication to [[a]]the monitoring node and a second radio node;

the monitoring node comprising a processor coupled to the monitoring node that generatesfor generating an open loop metric to estimate channel dynamics, and determining, based on the channel dynamics, a transmission parameter adjustments based on one of the open loop metrics or closed loop metrics; and

wherein the monitoring node is a last open loop output peer node.

18.   (Original) The system of claim 17, wherein the transmission parameters comprise at least one of transmit power, modulation type, and forward error correction (FEC).

19.   (Original) The system of claim 17, wherein the first radio node comprises a radio transceiver and the second radio node comprises a radio transceiver.

20.   (Original) The system of claim 17, wherein the estimate utilizes transmission power indicator information from the first radio node.

21.   (Previously Presented) The system of claim 1, further comprising sending by the first node the first radio communication to at least a second node.